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DATE MAILED: 10/28/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/872,059	06/01/2001	Lin Yang	6024-003 2292		
32566	7590 10/28/2004		EXAMINER		
PATENT LAW GROUP LLP			MOORE, IAN N		
2635 NORTH SUITE 223	FIRST STREET		ART UNIT	PAPER NUMBER	
SAN JOSE, (CA 95134		2661		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)				
		09/872,059		YANG ET AL.				
Office Action Summary		Examiner		Art Unit				
		Ian N Moore		2661				
	The MAILING DATE of this communication ap		r sheet with the c					
Period fo		•		•				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, how helply within the statutory mi d will apply and will expire tte, cause the application to	ever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to to become ABANDONEL	ely filed will be considered timely. the mailing date of this communication (35 U.S.C. § 133).	1.			
Status								
1)⊠	Responsive to communication(s) filed on app	olication filed on 6-	1-2001	•				
2a)□	·	nis action is non-fin						
3)								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disnosit	ion of Claims							
-				•				
4)[2]	Claim(s) <u>1-10</u> is/are pending in the application.							
5\□	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	Claim(s) is/are allowed. Claim(s) <u>1-10</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
·—								
		•		·				
	ion Papers							
9) The specification is objected to by the Examiner.								
10)[2])⊠ The drawing(s) filed on 30 November 2001 is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11\	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
-	under 35 U.S.C. § 119							
,	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document			-(d) or (f).				
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the pri	iority documents h	ave been receive	d in this National Stage				
	application from the International Bure	au (PCT Rule 17.2	2(a)).					
* (See the attached detailed Office action for a lis	st of the certified c	opies not receive	d.				
Attachmen		🗀	l	(DTO 442)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) [Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/06 or No(s)/Mail Date	8) 5) C	Notice of Informal P	atent Application (PTO-152)				

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DETAILED ACTION

Claim Objections

1. Claims 1 and 6 are objected to because of the following informalities. Appropriate correction is required.

Claim 1 recites, " δ (Δt)' δ (i,j)" in line 6. There is a dot "•" Right behind on the top the first δ (Δt). It is suggested to remove the dot "•".

Claim 6 is also objected for the same reason as stated above in claim 1.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claim 1 recites variables "i", "j" and "t" in line 6-7, "comp" and "rem" in lines 14-16. Since theses variables not defined, it is unclear what they represent in a convolution signal formula and a remainder signal formula.
 - b. Claim 6 is also rejected for the same reason as above (a) in claim 1.
 - c. Claim 1 recites the limitations, "the signal transmission channel" in line 10. There is insufficient antecedent basis for this limitation in the claim.
 - d. Claim 6 is also rejected for the same reason as above (c) in claim 1.

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e. Claim 1 recites the limitations "a convolution signal" in line 5 and "a convolution signal" in line 13-14. It is unclear whether a convolution signal recites in line 5 is the same convolution signal as recites in line 13-14.

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- f. Claim 6 is also rejected for the same reason as above (e) in claim 1.
- g. Claim 1 recites the limitations "the signal transmission channel" in line 3 and "a transmission channel" in line 10. It is unclear whether the signal transmission channel recites in line 3 is the same transmission channel as recites in line 10.
- h. Claim 1 recites the limitations "transmitting at least one padded signal frame through a transmission channel in the transmitted signal" line 10-11 and "the transmitted signal" in line 13. It is unclear whether the frame or the signal is transmitted thought a transmission channel.
- i. Claim 6 is also rejected for the same reasons as above (g and h) in claim 1.
- j. Claim 6 recites the limitations, "**the** transmitted signal" in line 10. There is insufficient antecedent basis for this limitation in the claim.
- k. Claim 3 recites the limitations "at least one of <u>said</u> PN sequences" in line 3. It is unclear whether said PN sequence recite in claim 3 refers to a set of pueudo-random signal m-sequence PN (claim 1, line 4), a selected sequence PN (claim 1, line 8), or one of the sequences PN (claim 1, line 18) since there are more than one PN sequences recite in claim 1.
- 1. Claims 4, 8, and 9 are also rejected for the same reasons as above (k) in claim 3.

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m. Claim 3 recites the limitations "said transmission channel" line 1. It is unclear whether said transmission channel refers to "the signal transmission channel" (claim 1, line 3) or "a transmission channel" (claim 1, line 10).

- n. Claim 8 is also rejected for the same reasons as above (m) in claim 3.
- o. Claims 2,5, 7 and 10 are also rejected since they are depended upon rejected claim.

Allowable Subject Matter

4. Claims 1-10 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian N Moore whose telephone number is 571-272-3085. The examiner can normally be reached on M-F: 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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INM 10/21/04

BRIAN NGUNDA

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